

Receiving Report

Date: Air dynamics Batch No: 136804

Supplier: 14-11-6 Dart P/O: 26144

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr
 New Supplier: Yes No

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No
 Shipment Complete: Yes No N/A
 QC18 Inspection:
 Work Order:

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12



Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26144**

Purchase Order Date 10/16/2014

PO Print Date 10/16/2014

Page Number 1 of 1

Order From : VC-AD001

AIR DYNAMICS
19420B CLARK GRAHAM AVENUE
BAIE D'URFE, QUEBEC H9X 3R8

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 514-457-4287

Buyer Chantal Lavoie

Ship To Contact

Customer POID

Ship To Phone

Customer Tax # 10127-2607

Ship Via: Purolator ground collect

Terms Net 30

Ship Act:

Currency CAD

FOB EXW - (Ex Works)

PAID

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extend- Pri
Line Comments			Promise Date				
Delivery Comments							
1	71400-11	CA8213/F37038 PAINT COLOR BLACK	11/19/2014	Yes	2.00 Each	\$220.00	\$440.00
			11/19/2014				
		Procurement Quality Clauses A005 RIGHT OF ENTRY A014 SHELF LIFE CONTROLLED MATERIAL; 70% SHELF LIFE REQUIRED AT RECEIPT A026 CERTIFICATION OF MATERIAL CONFORMANCE A040 NOTIFICATION OF QUALITY ESCAPE A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS					

SP/4-11-6

Line Total: \$440.00

Deliver To: ANDY

PO Total: \$440.00

PO Instructions: Purolator Acc#7684382

CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dart aerospace.com for further explanation.

Change Nbr: 2

Change Date: 10/16/2014



Air Dynamics

19420B Clark Graham Avenue
Baie D'Urfé, Québec H9X 3R8

Tel.: (514) 457-4287
Fax: (514) 457-4143

BON DE LIVRAISON

PACKING SLIP 731207

CUSTOMER NO. 700

Facture à:
Invoice to:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKSLEY ON K6A 1K7

ACCTS PAY/ DALE BATES

Expédié à:
Ship to:

SAME

Date	Expédié par/Ship via:	F.A.B./F.O.B.	Conditions/Terms
11/04/14	PUROLATOR COLLECT		

No. de commande Purchase order no.	Date de commande Order date	Vendeur(se)/Salesperson	Notre No. de commande/Our order number
PO26144	10/16/14	SARAH FAIRHURST	

Qté req/ Qty req	Expédié Shipped	En souffle/ B.O.	No. d'article Item Number	Description	Prix unitaire Unit price	Prix rapporté Extended price
2	2	/	CA8213/F37038	ORDERED BY CHANTAL LAVOIE - SHIP VIA PUROLATOR PAINT- BLACK (GL KIT) W/ CA8200B (SPEC: M	L-PRF-85285 TY.1)	
2	2	/	BATCH	BATCH #30813 EXP: SEPT/2015 CA8213/F37038 BASE (3/4 GL) LOT#34425837 CA8200B ACTIVATOR (1 QT) LOT#205290 MFG CERTIFICATION/MSDS INCLUDED		

JE CERTIFIE PAR LES PRÉSENTES QUE LES PIÈCES D'AÉRODÉC
DÉCRITES DANS LE PRÉSENT CERTIFICAT ONT ÉTÉ OBTENUES D'UNE
SOURCE D'APPROVISIONNEMENT CONFORME AUX CONDITIONS
AUXQUELLES LE CERTIFICAT D'AUTORISATION DE DISTRIBUTION
NO. 12-89 DU MINISTÈRE DES TRANSPORTS A ÉTÉ ATTRIBUÉ.

DATE 4 November 2014

SIGNE Brenda Shea

AD
5

I hereby certify that the aircraft parts, appliances and/or
materials described herein were acquired from a source of
supply that is consistent with the conditions under which
the Department of Transport distributor approval
No. 12-89 has been granted.

Date November 4, 2014 Inspector's Signature Brenda Shea

RELEASE CERTIFICATE

AIR DYNAMICS

19420B Clark Graham Avenue
Baie d'Urfé, Québec, H9X 3R8
514-457-4287

AD
5

AD-1(A)
QTY? 2
GL. KIT

NOMENCLATURE PAINT - BLACK (GL. KIT) w/ CA8200 B
PART NUMBER CA82B/F37038 MODEL TYPE SPEC: MIL-PRF-85285 TV.1

MAKE PRC PPG

SERIAL NUMBER CA8213/F37038 - LOT# 34425837

CA8200 B - LOT# 205290

NEW REPAIRED INSPECTED OVERHAULED MODIFIED

PREVIOUS CERTIFICATION BT#30813 EXP: SEPTEMBER / 2015

I HEREBY CERTIFY THAT THE AIRCRAFT PARTS, APPLIANCES AND/OR MATERIALS DESCRIBED HEREON
WERE ACQUIRED FROM A SOURCE OF SUPPLY THAT IS CONSISTANT WITH THE CONDITIONS UNDER
WHICH THE DEPARTMENT OF TRANSPORT DISTRIBUTOR APPROVAL NO. 12-89 HAS BEEN GRANTED.

DATE NOVEMBER 4, 2014

Brenda Shea
INSPECTOR'S SIGNATURE

JE CERTIFIE D'AVOIR PRUVEE QUE LES PIECES D'ARGONNEFS
DECrites DANS LE PRESENT CERTIFICAT ONT ETE OBTENUES D'UNE
SOURCE D'APPROVISIONNEMENT CONFORME AUX CONDITIONS
AUXQUELLES LE CERTIFICAT D'AUTORISATION DE DISTRIBUTION
NO. 12-89 DU MINISTERE DES TRANSPORTS A ETE ATTRIBUE.

DATE

4 November 2014

SIGNE

Brenda Shea

AD
5

Certificate of Conformance/ Certificat de conformité

Packing Slip/Bon de ramassage 58021464 Page: 1 of 1

PPG Aerospace
A Division of PPG Canada Inc
5576 Timberlea Blvd.
Mississauga, ON L4W 4M6
Phone: 905-629-7999
Fax: 905-629-7009

Order Date/
Date de la Commande:
Cust. No./
No. de réf du client:
Terms/
Termes:
Cust. P.O./
No. de bon de Commande:
Site:

10/20/14
TC000104
NET45
030813
3738CN

Order No/
No. de Commande:
S124457
CSR:

10/29/14
20:23:53

Remarks/
Remarques: BRENTA SHEA / TR

Sold To/ TC000104
Vendu à: AIR DYNAMICS COMPANY LIMITED
19420B CLARK GRAHAM AVENUE
BAIE D'URFE, PQ H9X 3R8
CANADA

830813

31 OCT 2014

Ship via/ DICOM EXPRESS
Expédié par:

Ship To TC000104
Expédié à AIR DYNAMICS COMPANY LIMITED
19420B CLARK GRAHAM AVENUE
BAIE D'URFE, PQ H9X 3R8
CANADA

Line/ Ligne	Qty Ordered/ Qté. commandée. UM	Description	Req Date/ Date Requise	Due Date/ Promise Date/ Date Due Date Promise	Qty to Ship/ Qté. Disponible	Qty Picked/ Qté. Livérée
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Quality Requirements:

CERTIFICATE OF CONFORMANCE

MIN 90% SHELF LIFE ITEMS MADE AT ASC CANADA- PURCHASED ITEMS 75% SHELF LIFE

MOJAVE BULK CERT REQUIRED FOR ITEMS -

SEALANT BULK MATERIAL MFD PPG AEROSPACE, PRC-DESO TO INT'L, MOJAVE, CA

MASTINOX BULK MATERIAL MFD PPG AEROSPACE, FRANCE

*

Labelling Requirements:

MANUFACTURE/PACKAGE DATE AND EXPIRY DATE TO APPEAR ON ALL DOCUMENTATION AND LABELS

Shipping Info:

PARTIAL SHIPMENT IS ACCEPTABLE

SHIP 7+ BOXES VIA GO JET ACCT #2060881

SHIP 6 BOXES OR LESS VIA DICOM ACCT #0313470

SHIP AS SOON AS POSSIBLE

1	2 EA	8213F37038ZZY22K MIL-PRF-85285/MMS420 BLK CA8213 F37038 GL KIT SPEC: MIL-PRF-85285 REV E TY I CL H Lot No: 34425837/205290	11/04/14	11/04/14	11/04/14
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*Location: FRA-21

- #11213

Batch: 34425837

- 8200CSBXXXMPQ11B

Batch: 501664

In compliance with the chemical registration laws of CANADA

DONN: 9/14

DOE: 9/15.

PATIAT



2 2

000327

1030 S123907

Date Shipped/ Date D'expédition	10/30/14
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We certify that this material has been manufactured and tested in accordance with applicable specification(s). Test data pertaining to this material is on file and available for inspection upon request.

N. Maharaj
Niru Maharaj



Quality Control



530813

31 OCT. 2014

PPG Canada Inc.
5676 Timberlea Boulevard
Mississauga, Ontario L4W 4M6
Canada
Telephone (905) 629-7999
Fax (905) 629-7009
www.ppgaerospace.com

TEST REPORT

Page 1 of 1

REFERENCE: MIL-PRF-85285E Type I Class H

This is to certify that the material described herein meets or exceeds the test requirements of the referenced specification and that all tests have been performed in accordance to the specification.

POLYURETHANE, HIGH-SOLIDS

BASE: CA 8213/F37038 BATCH: 34425837
ACTIVATOR: CA 8200B BATCH: 205290

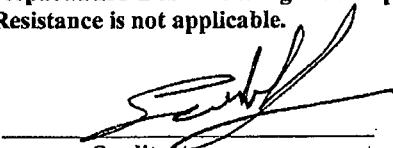
LOT #: 1244571

THE BASE MATERIAL IS A BLEND OF STAINERS. THE STAINERS MEET OR EXCEED THE ACCEPTANCE TEST REQUIREMENTS OF THE SPECIFICATION. TEST DATA FOR THE STAINERS IS ON FILE IN QUALITY ASSURANCE.

ITEM	REQUIREMENT	RESULT
	Weight per Gallon ASTM D1475	9.9 ± 0.25 lbs/gal
3.6.1	Fineness of Grind ASTM D1210	Gloss: 7 minimum Semi-Gloss; Camouflage: 5 minimum
3.6.4	Viscosity ASTM D1200	
	Fresh Mix	30 seconds maximum
	Pot Life, 4 hours	60 seconds maximum
	Gel, 5 hours	No gel.
3.7.3	Color ASTM D2244	ΔE = < 1
3.7.5	Gloss ASTM D523	@ 60° Gloss: 90 minimum @ 60° Semi-Gloss: 15-45 @ 60° Camouflage: 5 maximum @ 85° Camouflage: 10 maximum
3.8.6**	Tape Resistance Sec. 4.6.12	The coating shall not exhibit permanent marring caused by masking tape applied to the coated test panels.

Date: 11/03/2014

**Per letter issued by Kevin J. Kovaleski, Head Industrial and Operational Chemicals Branch, Department of the Navy, dated January 09, 2012 to PPG Aerospace/PRC-DeSoto stating the acceptance of 9800 series topcoat with use of 9800CT thinner, Test Section 3.8.6 Tape Resistance is not applicable.


Quality Assurance

(SHIRISH PATEL)

MIL-PRF-85285
4/3/09, vms

Recommendations for the use of our products are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where the product is used under conditions beyond our control. Under no circumstances will PRC-DeSoto International, Inc. be liable for consequential damages to anyone in excess of the purchase price of the products.

Material Safety Data Sheet



Date of issue 17 October 2014
Version 10.01

1 . Product and company identification

Product name : CA 8213/F37038 BASE COMPONENT
Code : CA 8213/F37038 BASE COMPONENT
Supplier : PPG Aerospace PRC-DeSoto
12780 San Fernando Road
Sylmar, CA 91342
Phone: 818 362 6711
Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)

2 . Hazards identification

Emergency overview : DANGER!
FLAMMABLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN. CAUSES RESPIRATORY TRACT, EYE
AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE
HARMFUL IF INHALED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF
INHALED. ASPIRATION HAZARD. CAN ENTER LUNGS AND CAUSE DAMAGE.
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.
CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
Keep away from flames, such as a pilot light, and any object that sparks, such as an
electric motor. Keep away from heat. Do not smoke. Do not swallow. Do not get in
eyes or on skin or clothing. Avoid breathing vapor or mist. Use only with adequate
ventilation. Keep container tightly closed and sealed until ready for use. Wash
thoroughly after handling.

Potential acute health effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose,
mouth and throat.
Ingestion : Harmful or fatal if swallowed. Aspiration hazard if swallowed. Can enter lungs and
cause damage.
Skin : Toxic in contact with skin. Irritating to skin. May cause an allergic skin reaction.
Eyes : Irritating to eyes.

Over-exposure signs/symptoms

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and
nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes
headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated
exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected
from exposure to noise alone.

Medical conditions aggravated by over-exposure : Pre-existing skin disorders and disorders involving any other target organs mentioned in
this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials
Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (Section 11)

3 . Composition/information on ingredients

Name	CAS number	%
barium sulfate	7727-43-7	10 - 30
butanone	78-93-3	10 - 30
1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol, 1,2-ethanediol, hexanedioic acid and 1,6-hexanediol	69929-19-7	7 - 13
heptan-2-one	110-43-0	7 - 13
Silica gel, pptd., cryst.-free	112926-00-8	5 - 10
Acetic acid, C8-10-branched alkyl esters, C9-rich	108419-33-6	5 - 10
pentane-2,4-dione	123-54-6	3 - 7
polyester resin	Not available.	1 - 5
carbon black, respirable powder	1333-86-4	1 - 5
xylene	1330-20-7	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

Flammability of the product	: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Extinguishing media	
Suitable	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	: Do not use water jet.
Special exposure hazards	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides sulfur oxides metal oxide/oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

Handling	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not swallow. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8 . Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
barium sulfate	TWA	5 mg/m ³	15 mg/m ³ TD 5 mg/m ³ R	10 mg/m ³ TD	Not established	Not established
butanone	TWA	200 ppm	200 ppm	200 ppm	200 ppm	Not established
	STEL	300 ppm	Not	300 ppm	300 ppm	Not

8 . Exposure controls/personal protection

			established			established
heptan-2-one	TWA	50 ppm	100 ppm	25 ppm	50 ppm	Not established
	STEL	Not established	Not established	Not established	100 ppm	Not established
Silica gel, pptd., cryst.-free	TWA	Not established	Not established	10 mg/m³	10 mg/m³	Not established
pentane-2,4-dione	TWA	25 ppm S	Not established	25 ppm S	Not established	20 ppm
	STEL	Not established	Not established	Not established	Not established	40 ppm
carbon black, respirable powder	TWA	3 mg/m³	3.5 mg/m³	3 mg/m³	3.5 mg/m³	Not established
	STEL	Not established	Not established	Not established	7 mg/m³	Not established
xylene	TWA	100 ppm	100 ppm	100 ppm	100 ppm	Not established
	STEL	150 ppm	Not established	150 ppm	150 ppm	Not established

Key to abbreviations

A	= Acceptable Maximum Peak	S	= Potential skin absorption
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	= Respiratory sensitization
C	= Ceiling Limit	SS	= Skin sensitization
F	= Fume	STEL	= Short term Exposure limit values
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	= Occupational Safety and Health Administration.	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes : Safety glasses with side shields.

8 . Exposure controls/personal protection

Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Respiratory	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Skin	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: 26.67°C (80°F)
Material supports combustion.	: Yes.
Color	: Black.
Odor	: Not available.
pH	: Not available.
Boiling/condensation point	: >37.78°C (>100°F)
Melting/freezing point	: Not available.
Specific gravity	: 1.2
Density (lbs / gal)	: 10.01
Vapor pressure	: Not available.
Vapor density	: Not available.
Evaporation rate	: Not available.
VOC	: 492 g/l
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.
% Solid. (w/w)	: 59.05

10 . Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see Section 7).
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Materials to avoid	: Reactive or incompatible with the following materials: acids, oxidizing materials, strong alkalis
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butanone	LD50 Oral LD50 Dermal LC50 Inhalation Vapor	Rat Rabbit Rat	2737 mg/kg 6480 mg/kg 11243 ppm	- - 4 hours
heptan-2-one	LD50 Oral	Rat	1.6 g/kg	-
pentane-2,4-dione	LD50 Dermal LD50 Oral LD50 Dermal LC50 Inhalation Vapor	Rabbit Rat Rabbit Rat	10.206 g/kg 55 mg/kg 787.4 mg/kg 1225 ppm	- - - 4 hours
polyester resin	LD50 Oral LD50 Dermal LC50 Inhalation Vapor	Rat Rabbit Rat	>5 g/kg >2 g/kg >7400 mg/m ³	- - 4 hours
carbon black, respirable powder	LD50 Oral LD50 Dermal	Rat Rabbit	>15400 mg/kg >3 g/kg	- -
xylene	LD50 Oral LD50 Dermal LC50 Inhalation Vapor	Rat Rabbit Rat Rat	4.3 g/kg >1.7 g/kg 5000 ppm	- - - 4 hours

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Defatting irritant

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Target organs

: Contains material which causes damage to the following organs: mucous membranes, brain, .
Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, peripheral nervous system, upper respiratory tract, immune system, skin, central nervous system (CNS), eye, lens or cornea.

Carcinogenicity

Carcinogenicity : Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Classification

Product/ingredient name	ACGIH	IARC	NTP	OSHA
Silica gel, pptd., cryst.-free carbon black, respirable powder	- A3	3 2B	- -	- -

11 . Toxicological information

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5
 IARC: 1, 2A, 2B, 3, 4
 NTP: Proven, Possible
 OSHA: +
 Not listed or regulated as a carcinogen: -

Teratogenicity

Reproductive toxicity

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	DOT	TDG	Mexico	IMDG
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	III	III	III	III
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	26437.1	Not applicable.	Not applicable.	Not applicable.
RQ substances	(xylene, butanone)	Not applicable.	Not applicable.	Not applicable.

Additional information

DOT : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

TDG : None identified.

14. Transport information

Mexico : None identified.

IMDG : None identified.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15 . Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.

Australia inventory (AICS) : Not determined.

Canada inventory (DSL) : At least one component is not listed.

China inventory (IECSC) : All components are listed or exempted.

Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.

Japan inventory (ENCS) : Not determined.

Korea inventory (KECI) : At least one component is not listed.

New Zealand (NZIoC) : At least one component is not listed.

Philippines inventory (PICCS) : Not determined.

United States

United States - TSCA 5(a)2 - Proposed significant new use rules:

pentane-2,4-dione

Listed

SARA 302/304: No products were found.

SARA 311/312 SDS Distribution - Chemical Inventory - Hazard Identification:

Chemical name	CAS #	Acute	Chronic	Fire	Reactive	Pressure
barium sulfate	7727-43-7	N	N	N	N	N
butanone	78-93-3	Y	N	Y	N	N
1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol, 1,2-ethanediol, hexanedioic acid and 1,6-hexanediol	69929-19-7	Y	N	N	N	N
heptan-2-one	110-43-0	Y	N	Y	N	N
Silica gel, pptd., cryst.-free	112926-00-8	N	N	N	N	N
Acetic acid, C8-10-branched alkyl esters, C9-rich	108419-33-6	N	N	Y	N	N
pentane-2,4-dione	123-54-6	Y	N	Y	N	N
polyester resin	Not available.	Y	N	N	N	N
carbon black, respirable powder	1333-86-4	N	Y	N	N	N
Product as-supplied :		Y	Y	Y	N	N

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Canada

WHMIS (Canada) : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-1A: Material causing immediate and serious toxic effects (Very toxic). Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Product code CA 8213/F37038 BASE COMPONENT Date of issue 17 October 2014 Version 10.01

Product name CA 8213/F37038 BASE COMPONENT

15 . Regulatory information

Classification

Flammability : 3 Health : 3 Reactivity : 0

16 . Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 3 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 3 Instability : 0

Date of previous issue : 10/12/2014.

Organization that prepared : EHS
the MSDS

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Material Safety Data Sheet



Date of issue 17 October 2014
Version 10.01

1. Product and company identification

Product name : CA 8200B M&D ACTIVATOR COMPONENT
Code : CA 8200B M&D ACTIVATOR COMPONENT
Supplier : PPG Aerospace PRC-DeSoto
12780 San Fernando Road
Sylmar, CA 91342
Phone: 818 362 6711
Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)

2. Hazards identification

Emergency overview : WARNING!
COMBUSTIBLE LIQUID AND VAPOR. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. SKIN CONTACT TO ISOCYANATE MONOMER MAY LEAD TO ALLERGIC LUNG REACTION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not swallow. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation : Harmful if inhaled. Severely irritating to the respiratory system. Can irritate eyes, nose, mouth and throat. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion : May be harmful if swallowed.
Skin : Moderately irritating to the skin. May cause an allergic skin reaction.
Eyes : Moderately irritating to eyes.

Over-exposure signs/symptoms

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

Medical conditions aggravated by over-exposure : Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

Product name CA 8200B M&D ACTIVATOR COMPONENT

2 . Hazards identification

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See toxicological information (Section 11)

3 . Composition/information on ingredients

Name	CAS number	%
Hexamethylene diisocyanate, oligomers	28182-81-2	60 - 100
heptan-2-one	110-43-0	5 - 10
n-butyl acetate	123-86-4	1 - 5
Solvent naphtha (petroleum), light aromatic	64742-95-6	1 - 5
1,2,4-trimethylbenzene	95-63-6	0.5 - 1.5
mesitylene	108-67-8	0.1 - 1
hexamethylene-di-isocyanate	822-06-0	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5 . Fire-fighting measures

Flammability of the product : Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Extinguishing media

Suitable : Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable : Do not use water jet.

Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
Hydrogen cyanide (HCN).
Cyanate and isocyanate.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions

- : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill

- : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small spill

- : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Special provisions

- : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

7 . Handling and storage

Handling

- : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe vapor or mist. Do not swallow. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Product code CA 8200B M&D ACTIVATOR
COMPONENT

Date of issue 17 October 2014 Version 10.01

Product name CA 8200B M&D ACTIVATOR COMPONENT

7 . Handling and storage

Storage

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurization. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8 . Exposure controls/personal protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
Hexamethylene diisocyanate, oligomers	TWA STEL	Not established Not established	Not established Not established	Not established Not established	Not established Not established	0.5 mg/m ³ 1 mg/m ³
heptan-2-one	TWA STEL	50 ppm Not established	100 ppm Not established	25 ppm Not established	50 ppm 100 ppm	Not established Not established
n-butyl acetate	TWA STEL	150 ppm 200 ppm	150 ppm Not established	150 ppm 200 ppm	150 ppm 200 ppm	Not established Not established
1,2,4-trimethylbenzene	TWA STEL	25 ppm Not established	Not established Not established	25 ppm Not established	25 ppm 35 ppm	Not established Not established
mesitylene	TWA STEL	25 ppm Not established	Not established Not established	25 ppm Not established	25 ppm 35 ppm	Not established Not established
hexamethylene-di-isocyanate	TWA	0.005 ppm	5 mg/m ³ (as CN) S	0.01 ppm	5 mg/m ³ (as Cn)	Not established

Key to abbreviations

A = Acceptable Maximum Peak
ACGIH = American Conference of Governmental Industrial Hygienists.
C = Ceiling Limit
F = Fume
IPEL = Internal Permissible Exposure Limit
OSHA = Occupational Safety and Health Administration.
R = Respirable
Z = OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

S = Potential skin absorption
SR = Respiratory sensitization
SS = Skin sensitization
STEL = Short term Exposure limit values
TD = Total dust
TLV = Threshold Limit Value
TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

**Product code CA 8200B M&D ACTIVATOR
COMPONENT**

Date of issue 17 October 2014 Version 10.01

Product name CA 8200B M&D ACTIVATOR COMPONENT

8 . Exposure controls/personal protection

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Engineering measures	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<u>Personal protection</u>	
Eyes	: Safety glasses with side shields.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Respiratory	: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Skin	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Restrictions on use	: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

9 . Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: 38°C (100.4°F)
Material supports combustion.	: Yes.
Color	: Clear.
Odor	: Not available.
pH	: Not available.
Boiling/condensation point	: 126.11 to 148.89°C (259 to 300°F)
Melting/freezing point	: Not available.
Specific gravity	: 1.09

Product code CA 8200B M&D ACTIVATOR
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Product name CA 8200B M&D ACTIVATOR COMPONENT

9 . Physical and chemical properties

Density (lbs / gal)	: 9.1
Vapor pressure	: Not available.
Vapor density	: Not available.
Evaporation rate	: Not available.
VOC	: 206 g/l
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.
% Solid. (w/w)	: 81.36

10 . Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see Section 7).
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts slowly with water, resulting in the production of carbon dioxide. In closed containers, pressure buildup could result in distortion, expansion and, in extreme cases, bursting of the container.
Materials to avoid	: Reactive or incompatible with the following materials:, oxidizing materials, strong acids, strong alkalis
Hazardous decomposition products	: Cyanate and isocyanate.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers	LD50 Oral LD50 Dermal LC50 Inhalation Dusts and mists LC50 Inhalation	Rat - Female Rabbit Rat	>2500 mg/kg >2000 mg/kg 0.39 mg/l	- - 4 hours
heptan-2-one	LD50 Oral	Rat	18500 mg/m ³	1 hours
n-butyl acetate	LD50 Dermal LD50 Oral LD50 Dermal LC50 Inhalation	Rabbit Rat Rabbit Rat	1.6 g/kg 10.206 g/kg 10.768 g/kg >17600 mg/kg	- - - 4 hours
Solvent naphtha (petroleum), light aromatic	LD50 Oral LD50 Dermal	Rat Rabbit	>21.1 mg/l 8400 mg/kg	- -
1,2,4-trimethylbenzene	LD50 Oral LC50 Inhalation	Rat Rat	3.48 g/kg 5 g/kg	- -
mesitylene	LD50 Oral LC50 Inhalation	Rat Rat	18000 mg/m ³ 5000 mg/kg	4 hours -
hexamethylene-di-isocyanate	LD50 Oral LD50 Dermal LC50 Inhalation Vapor	Rat Rabbit Rat	24000 mg/m ³ 0.71 g/kg 0.57 g/kg 151 mg/m ³	4 hours - - 4 hours

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Product code CA 8200B M&D ACTIVATOR
COMPONENT

Date of issue 17 October 2014 Version 10.01

Product name CA 8200B M&D ACTIVATOR COMPONENT

11 . Toxicological information

Defatting irritant : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Target organs : Contains material which causes damage to the following organs: brain, central nervous system (CNS).
Contains material which may cause damage to the following organs: blood, lungs, peripheral nervous system, upper respiratory tract, skin, eye, lens or cornea.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate, oligomers	Acute EC50 >100 mg/l	Daphnia - daphnia magna	48 hours
	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours

13 . Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	DOT	TDG	Mexico	IMDG
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	III	III	III	III
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

**Product code CA 8200B M&D ACTIVATOR
COMPONENT**

Date of issue 17 October 2014 Version 10.01

Product name CA 8200B M&D ACTIVATOR COMPONENT

14. Transport information

Additional information

DOT	: This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.
TDG	: None identified.
Mexico	: None identified.
IMDG	: None identified.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15 . Regulatory information

United States inventory (TSCA 8b)	: All components are listed or exempted.
Australia inventory (AICS)	: All components are listed or exempted.
Canada inventory (DSL)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Europe inventory (REACH)	: Please contact your supplier for information on the inventory status of this material.
Japan inventory (ENCS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
New Zealand (NZIoC)	: All components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.

United States

SARA 302/304: No products were found.

SARA 311/312 SDS Distribution - Chemical Inventory - Hazard Identification:

Chemical name	CAS #	Acute	Chronic	Fire	Reactive	Pressure
Hexamethylene diisocyanate, oligomers	28182-81-2	Y	N	N	N	N
heptan-2-one	110-43-0	Y	N	Y	N	N
n-butyl acetate	123-86-4	Y	N	Y	N	N
Solvent naphtha (petroleum), light aromatic	64742-95-6	Y	N	Y	N	N
1,2,4-trimethylbenzene	95-63-6	Y	N	Y	N	N
hexamethylene-di-isocyanate	822-06-0	Y	N	N	Y	N
Product as-supplied :		Y	N	Y	N	N

SARA 313	Chemical name	CAS number	Concentration
Supplier notification	1,2,4-trimethylbenzene	95-63-6	0.5 - 1.5

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

Canada

WHMIS (Canada) : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Product code CA 8200B M&D ACTIVATOR
COMPONENT

Date of issue 17 October 2014 Version 10.01

Product name CA 8200B M&D ACTIVATOR COMPONENT

15 . Regulatory information

Mexico

Classification

Flammability : 2 Health : 3 Reactivity : 0

16 . Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 2 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 2 Instability : 0

Date of previous issue : 10/12/2014.

Organization that prepared : EHS
the MSDS

Indicates information that has changed from previously issued version.

Disclaimer

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